

## SEQUENCE LISTING

<110> CropDesign N.V.  
Centre National de la Recherche Scientifique

<120> Plants having improved growth characteristics and a method for making the same

<130> BET 04P0246

<150> EP 03290812.1

<151> 2003-03-31 .....

<160> 19

<170> PatentIn version 3.1

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<212> DNA

<213> *Arabidopsis thaliana*

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<221> misc\_feature

<223> CCS52A1 cDNA

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 <213> *Arabidopsis thaliana*

<220>  
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 <223> CCS52A1 protein

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Ser	Pro	Ser	Pro	Ser	Ser	Leu	Ser	Arg	Ser	Ile	Tyr	Ser	Asp	Arg	Phe
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Ile Thr Gly Phe Ser Ser Ser Arg Asn Ile Phe Arg Phe Lys Thr Glu  
115 120 125

Thr His Arg Ser Leu Asn Ser Phe Ser Pro Phe Gly Val Asp Asp Asp  
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Ser Pro Gly Val Ser His Ser Gly Pro Val Lys Ala Pro Arg Lys Val  
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Pro Arg Ser Pro Tyr Lys Ile Leu Asp Leu Val Asp Phe Arg Ser Leu  
165 170 175

Val Ser Ile Met His Glu Thr Ile Cys Asp Leu Cys Asp Val Leu Val  
180 185 190

Ser Glu Gly Leu Glu Phe Glu Ser Glu Val Leu Asp Ala Pro Ala Leu  
195 200 205

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210 215 220

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Ser Lys Val Thr Lys Leu Cys Asp Leu Gly Ala Glu Asp Ser Val Cys  
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Ser Val Gly Trp Ala Leu Arg Gly Thr His Leu Ala Val Gly Thr Ser  
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Thr Gly Lys Val Gln Ile Trp Asp Ala Ser Arg Cys Lys Arg Thr Arg  
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Ile Arg Cys Gln Glu Asp His Val Ser Lys Leu Ala Gly His Lys Ser  
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Gly Gly Asn Asp Asn Arg Leu Phe Val Trp Asn Gln His Ser Thr Gln  
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Pro Val Leu Lys Tyr Ser Glu His Thr Ala Ala Val Lys Ala Ile Ala  
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Asp Arg Cys Ile Arg Phe Trp Asn Thr Thr Thr Asn Thr His Leu Ser  
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Ser Ile Asp Thr Cys Ser Gln Val Cys Asn Leu Ala Trp Ser Lys Asn  
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Val Asn Glu Leu Val Ser Thr His Gly Tyr Ser Gln Asn Gln Ile Ile  
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Val Trp Lys Tyr Pro Thr Met Ser Lys Ile Ala Thr Leu Thr Gly His  
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Thr Tyr Arg Val Leu Tyr Leu Ala Val Ser Pro Asp Gly Gln Thr Ile  
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Val Thr Gly Ala Gly Asp Glu Thr Leu Arg Phe Trp Asn Val Phe Pro  
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Gly Arg Thr Thr Ile Arg  
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 <213> Oryza sativa

<220>  
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 <223> CCS52A cDNA

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 <213> Oryza sativa

<220>  
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35	40	45

Val Tyr Ser Asp Arg Phe Ile Pro Ser Arg Ala Gly Ser Asn Leu Ala  
50 55 60

Leu Phe Asp Leu Ala Pro Ser Pro Ser His His Asp Ala Ala Ala Ala  
65 70 75 80

Ala Ala Ser Pro Gly Ala Pro Pro Pro Ser Gly Ser Thr Pro Ala Ser  
85 90 95

Ser Pro Tyr Cys Ala Leu Leu Arg Ala Ala Leu Phe Gly Pro Thr Thr  
100 105 110

Pro Asp Arg Val Ala Ser Ser Ala Ser Ala Cys Ser Ser Ser Ser Ser  
115 120 125

Ala Gly Ala Ser Pro Val Gly Ser Pro Ala Thr Gly Asn Ile Phe Arg  
130 135 140

Phe Lys Ala Glu Val Pro Arg Asn Ala Lys Arg Ala Leu Phe Ser Asp  
145 150 155 160

Gly Asp Asp Glu Gly Val Leu Phe Pro Gly Val Phe Thr Thr Arg Gly  
165 170 175

Thr Gly Pro Arg Lys Ile Pro Arg Ser Pro Tyr Lys Val Leu Asp Ala  
180 185 190

Pro Ala Leu Gln Asp Asp Phe Tyr Leu Asn Leu Val Asp Trp Ser Ser  
195 200 205

His Asn Ile Leu Ala Val Gly Leu Gly Asn Cys Val Tyr Leu Trp Asn  
210 215 220

Ala Cys Ser Ser Lys Val Thr Lys Leu Cys Asp Leu Gly Val Asp Asp  
225 230 235 240

Asn Val Cys Ser Val Gly Trp Ala Gln Arg Gly Thr His Leu Ala Val  
245 250 255

Gly Thr Asn Gln Gly Lys Val Gln Val Trp Asp Ala Thr Arg Cys Lys  
260 265 270

Arg Ile Arg Thr Met Glu Ser His Arg Met Arg Val Gly Ala Leu Ala  
275 280 285

Trp Asn Ser Ser Leu Leu Ser Ser Gly Ser Arg Asp Lys Ser Ile Leu  
290 295 300

His His Asp Ile Arg Ala Gln Asp Asp Tyr Ile Ser Arg Leu Ala Gly  
305 310 315 320

His Lys Ser Glu Val Cys Gly Leu Lys Trp Ser Tyr Asp Asn Arg Gln  
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Leu Ala Ser Gly Gly Asn Asp Asn Arg Leu Tyr Val Trp Asn Gln His  
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Ser Ala His Pro Val Leu Lys Tyr Thr Glu His Thr Ala Ala Val Lys  
355 360 365

Ala Ile Ala Trp Ser Pro His Leu His Gly Leu Leu Ala Ser Gly Gly  
 370 375 380  
 Gly Thr Ala Asp Arg Cys Ile Arg Phe Trp Asn Thr Thr Thr Asn Met  
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 <212> PRT  
 <213> Oryza sativa

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Gly Asp Leu Pro Thr Pro Thr Lys Val Thr Val Ala Thr Ser Ser Pro  
 35 40 45

Leu Leu Phe Leu Leu Val Val Val Val Val Gly Gly Ala Ser  
 50 55 60

Ser Leu Asp Val Pro Ala Ala Pro Ala Pro Pro Arg Leu Asn Val Pro  
 65 70 75 80

Pro Ala Met Ala Gly Gly Leu Arg Leu Asp Pro Ala Val Ala Ser Pro

85	90	95	
Ala Arg Leu Leu Leu Asp Val Pro Lys Thr Pro Ser Pro Ser Lys Thr			
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Thr Tyr Ser Asp Arg Phe Ile Pro Cys Arg Ser Ser Ser Arg Leu His			
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Asn Phe Ala Leu Leu Asp Arg Asp Arg Ala Ser Pro Ser Ser Thr Thr			
130	135	140	
Asp Asp Ala Pro Tyr Ser Arg Leu Leu Arg Ala Glu Ile Phe Gly Pro			
145	150	155	160
Asp Ser Pro Ser Pro Ala Pro Ser Ser Pro Asn Thr Asn Leu Phe Arg			
165	170	175	
Phe Lys Thr Asp His Pro Ser Pro Lys Ser Pro Phe Ala Ala Ser Ala			
180	185	190	
Ala Ala Thr Ala Gly His Tyr Asp Cys Thr Ala Gly Ser Ala Glu Ser			
195	200	205	
Ser Thr Pro Arg Lys Pro Pro Arg Lys Val Pro Lys Thr Pro His Lys			
210	215	220	
Val Leu Asp Ala Pro Ser Leu Gln Asp Asp Phe Tyr Leu Asn Leu Val			
225	230	235	240
Asp Trp Ser Ser Gln Asn Thr Leu Ala Val Gly Leu Gly Asn Cys Val			
245	250	255	
Tyr Leu Trp Ser Ala Ser Asn Cys Lys Val Thr Lys Leu Cys Asp Leu			
260	265	270	
Gly Pro Arg Asp Ser Val Cys Ala Val His Trp Thr Arg Glu Gly Ser			
275	280	285	
Tyr Leu Ala Ile Gly Thr Ser Leu Gly Asp Val Gln Ile Trp Asp Ser			
290	295	300	
Ser Arg Cys Lys Arg Ile Arg Asn Met Gly Gly His Gln Thr Arg Thr			
305	310	315	320
Gly Val Leu Ala Trp Ser Ser Arg Ile Leu Ser Ser Gly Ser Arg Asp			
325	330	335	
Lys Asn Ile Leu Gln His Asp Ile Arg Val Pro Ser Asp Tyr Ile Ser			
340	345	350	
Lys Phe Ser Gly His Arg Ser Glu Asn His Val Cys Ala Ser Ser Asp			
355	360	365	
Ser Phe Phe Gly Gln Val Cys Gly Leu Lys Trp Ser His Asp Asp Arg			
370	375	380	
Glu Leu Ala Ser Gly Gly Asn Asp Asn Gln Leu Leu Val Trp Asn Gln			
385	390	395	400
Arg Ser Gln Gln Pro Ile Leu Arg Leu Thr Glu His Thr Ala Ala Val			
405	410	415	

Lys Ala Ile Ala Trp Ser Pro His Gln Gln Gly Leu Leu Ala Ser Gly  
420 425 430

Gly Gly Thr Ala Asp Arg Cys Ile Arg Phe Trp Asn Thr Val Asn Gly  
435 440 445

Asn Met Leu Asn Ser Val Asp Thr Gly Ser Gln Ala Thr Cys Glu His  
450 455 460

Ser Trp Val Phe Pro Lys Pro Asn His Gly Val Glu Val Pro Ile Tyr  
465 470 475 480

Val Lys Gly Cys Tyr Ser Asn Trp Thr His Ala Ala Ser Ala Leu Pro  
485 490 495

Cys Asn Val Thr Thr Ile Val Thr Gly Ala Gly Asp Glu Thr Leu Arg  
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Phe Trp Asn Ile Phe Pro Ser Met Lys Thr Gln Val Gly Ile Tyr Cys  
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Xaa Xaa

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<222> (6)..(6)

<223> Xaa = unknown

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<212> PRT

<213> Artificial Sequence

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